

Feldspar Thermometers, Barometers and Hygrometers

Reference	Name in ThermoBar	Temperature-dependent?	Pressure-dependent?	H ₂ O-dependent?
Feldspar-Liquid thermometry. Function “ <i>calculate_fspar_liq_temp</i> ”				
Plagioclase-Liquid				
Putirka (2008)	T_Put2008_eq23		✓	✓
	T_Put2008_eq24a		✓	✓
Alkali Feldspar-Liquid				
Putirka (2008)	T_Put2008_eq24b		✓	✗
Feldspar-Liquid barometry. Function “ <i>calculate_fspar_liq_press</i> ”				
Plagioclase-Liquid				
Putirka (2008)	P_Put2008_eq25	✓		✗
Feldspar-Liquid hygrometry. Function “ <i>calculate_fspar_liq_hygr</i> ”				
Plagioclase-Liquid				
Putirka (2008)	H_Put2008_eq25b	✓	✓	
Putirka (2005)	H_Put2005_eqH	✓	✗	
Waters and Lange (2015)	H_Waters2015	✓	✓	
Plagioclase-Alkali Feldspar thermometry. Function “ <i>calculate_plag_kspar_temp</i> ”				
Putirka (2008)	T_Put2008_eq27a		✓	✗
	T_Put2008_eq27b		✓	✗
	T_Put_Global_2Fspar		✓	✗
Other Functions				
calculate_fspar_liq_press_temp: Iteratively solves P and T for fspar-liq pairs using an equation for pressure, and an equation for temperature				
calculate_plag_kspar_temp_matching: Calculates P and T for all possible plag-kspar pairs (with user-selected options for equilibrium criteria)				

